

PATENT CLAIMS

1. Loudspeaker arrangement in a device for playback of stereophonic audio signals with a housing (22) arranged in the device, a loudspeaker (10) for bass signals and loudspeakers (12, 13) for mid-range and treble signals, in which crossover networks (31, 32) separate the stereophonic audio signals (S_L, S_R) for playback with loudspeakers (10, 12, 13) into a bass signal and mid-range and treble signals, characterized by the fact that the crossover networks (31, 32) have a crossover frequency higher than the cut-off frequency of loudspeaker (10) for bass signals.
2. Loudspeaker arrangement according to Claim 1, characterized by the fact that the crossover frequency of crossover networks (31, 32) is about 350 Hz.
3. Loudspeaker arrangement according to Claim 1 or 2, characterized by the fact that the loudspeakers (12, 13) for the mid-range and treble signals and the loudspeaker (10) for the bass signals have their own closed partial housing (23, 24, 27).
4. Loudspeaker arrangement according to Claim 3, characterized by the fact that the partial housing (23, 24, 27) of loudspeaker (12, 13) for the mid-range and treble signals and the loudspeaker (10) for bass signals are separated from each other by chambers (25, 26).
5. Loudspeaker arrangement according to Claim 4, characterized by the fact that the chambers (25, 26) and/or the partial housings (23, 24, 27) are acoustically damped.
6. Loudspeaker arrangement according to one of the Claims 1 to 5, characterized by the fact that the partial housing (27) of the loudspeaker (10) for the bass signals has a volume of 0.5 - 1.5 L.
7. Loudspeaker arrangement according to one of the Claims 1 to 6, characterized by the fact that the partial housing (23, 24) of loudspeakers (12, 13) for the mid-range and treble signals have a volume of about 0.04 L each.
8. Loudspeaker arrangement according to one of the Claims 1 to 7, characterized by the fact that the loudspeakers (12, 13) for the mid-range and treble signals have a distance from each other of 150 – 500 mm.

9. Loudspeaker arrangement according to one of the Claims 1 to 8, characterized by the fact that the loudspeaker (10) for the bass signals is driven by an amplifier (35, 36) with a power of 5 – 16 W.
10. Loudspeaker arrangement according to one of the Claims 1 to 9, characterized by the fact that the loudspeakers (12, 13) for the mid-range and treble signals are driven by amplifiers (35, 36) with a power of 3 – 7 W each.
11. Loudspeaker arrangement according to one of the Claims 1 to 10, characterized by the fact that the loudspeaker arrangement is a component of an entertainment electronics device.
12. Loudspeaker arrangement according to one of the Claims 1 to 10, characterized by the fact that the loudspeaker arrangement is a component of a monitor or computer.